## IN THE CLAIMS:

Claims 1-46 are cancelled.

- 47. (Amended) An isolated nucleotide sequence which is of sufficient [[length]] complementarity to [[regulate the level of]] an endogenous ACC synthase gene to reduce expression of said endogenous ACC synthase gene, and which hybridizes under high stringency conditions with a sequence of nucleotides set forth in SEQ ID NO:1, wherein the high stringency conditions are selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes; and
  - (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour.
- 48. (Amended) An isolated nucleotide sequence which is of sufficient [[length]] complementarity to [[regulate the level of]] an endogenous ACC synthase gene to reduce expression of said endogenous ACC synthase gene, and which hybridizes under high stringency conditions with a sequence of nucleotides set forth in SEQ ID NO:5, wherein the high stringency conditions are selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes; and
  - (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour.
- 49. (Amended) A method producing a transgenic papaya plant with inhibited fruit senescence including the steps of:
- (a) introducing into a papaya plant, plant part or plant cell a vector comprising an isolated nucleotide sequence which is of sufficient [[length]] complementarity to [[regulate the level of]] an endogenous ACC synthase gene to reduce expression of said endogenous ACC synthase gene, and which hybridises with a sequence of nucleotides set forth in SEQ ID NO:5 under high stringency conditions selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes;
- (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour; wherein said isolated nucleotide sequence is operably linked, in a sense orientation, to one or more regulatory nucleotide sequences; and
- (b) growing said plant, or regenerating said plant part or said plant cell to produce the transgenic papaya plant.
- 50. (Amended) A method of producing a transgenic papaya plant with inhibited fruit senescence including the steps of:
- (a) introducing into a papaya plant, plant part or plant cell a vector comprising an <u>isolated</u> nucleotide sequence which is of sufficient [[length]] <u>complementarity</u> to [[regulate the level of]] <u>an endogenous</u> ACC synthase gene <u>to reduce</u> expression <u>of said endogenous ACC synthase gene</u>, and which hybridises with a sequence of nucleotides set forth in SEQ ID NO:5 under high stringency conditions selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes;
  - (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour; wherein said nucleotide sequence is operably linked, in an antisense orientation, to one or more regulatory nucleotide sequences; and
  - (b) growing said plant, or regenerating said plant part or said plant cell to produce the transgenic papaya plant.

- 51. (Amended) An <u>isolated</u> nucleotide sequence which is of sufficient [[length]] <u>complementarity</u> to [[regulate the level of]] <u>an endogenous</u> ACC synthase gene <u>to reduce</u> expression <u>of said endogenous ACC synthase gene</u>, and which hybridises under high stringency conditions with a sequence of nucleotides set forth in SEQ ID NO:7 or SEQ ID NO:9, wherein the high stringency conditions are selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes; and
  - (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour.
- 52. (Amended) A method of producing a transgenic mango plant with inhibited fruit senescence comprising:
- (a) introducing into a mango plant, plant part or plant cell a vector comprising an isolated nucleotide sequence which is of sufficient [[length]] complementarity to [[regulate the level of]] an endogenous ACC synthase gene to reduce expression of said endogenous ACC synthase gene, and which hybridises with a sequence of nucleotides set forth in SEQ ID NO:7 or SEQ ID NO:9 under high stringency conditions selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes;
  - (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour; wherein said nucleotide sequence is operably linked, in a sense orientation, to one or more regulatory nucleotide sequences; and
- (b) growing said plant, or regenerating said plant part or said plant cell to produce the transgenic mango plant.
- 53. (Amended) A method of producing a transgenic mango plant with inhibited fruit senescence including the steps of:
- (a) introducing into a mango plant, plant part or plant cell a vector comprising an isolated nucleotide sequence which is of sufficient [[length]] complementarity to [[regulate the level of]] an endogenous ACC synthase gene to reduce expression of said endogenous ACC synthase gene, and which hybridises with a sequence of nucleotides set forth in SEQ ID NO:7 or SEQ ID NO:9 under high stringency conditions selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes;
  - (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour; wherein said nucleotide sequence is operably linked, in an antisense orientation, to one or more regulatory nucleotide sequences; and
- (b) growing said plant, or regenerating said plant part or said plant cell to produce the transgenic mango plant.
  - 54. (Cancelled)
  - 55. (Cancelled)
  - 56. (Cancelled)
  - 57. (Cancelled)

- 58. (Twice Amended) A vector comprising at least one copy of an <u>isolated</u> nucleotide sequence which is of sufficient [[length]] <u>complementarity</u> to [[regulate the level of]] <u>an endogenous</u> ACC synthase gene to reduce expression of said endogenous ACC synthase gene, and which hybridises under high stringency conditions with a sequence of nucleotides set forth in SEQ ID NO:1, SEQ ID NO:5, SEQ ID NO:7 or SEQ ID NO:9, wherein the high stringency conditions are selected from the group consisting of:
  - (i) 0.1 x SSC/0.1% SDS at about 68°C for at least about 20 minutes; and
  - (ii) 0.2 x SSC/0.1% SDS at about 68°C for about one hour.
- 59. (Amended) The vector of Claim 58 wherein said nucleotide sequence is operably linked to at least one regulatory nucleotide sequence.

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